

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

6B  
6-29-01

In re application of

Shuichi NAGATO et al.

Docket No. 2000\_0574A

Serial No. 09/530,703

Group Art Unit 3749

Filed June 21, 2000



FLUIDIZED-BED GASIFICATION AND  
COMBUSTION FURNACE

RECEIVED

JUN 26 2001

TECHNOLOGY CENTER R3700

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents,  
Washington, D.C.

Sir:

Kindly amend the above-identified application as follows.

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*B1*  
40. (New) A fluidized-bed gasification and combustion furnace, characterized in that: a fluidized-bed furnace is divided by a partition wall into a gasification furnace and a combustion furnace;

    a revolving flow of a fluidized medium in which an intense fluidizing region of the fluidized medium is formed so as to have a substantially high fluidizing velocity in the fluidized-bed in a certain region, thus generating an upward flow of the fluidized medium, and a weak fluidizing region of the fluidized medium is formed so as to have a substantially low fluidizing velocity in the fluidized-bed in another region, thus generating a descending flow of the fluidized medium, is formed in at least one of said gasification furnace and said combustion furnace; and

    a circulating flow of the fluidized medium is formed between said gasification furnace and said combustion furnace.

41. (New) A fluidized-bed gasification and combustion furnace, characterized in that: